

Please type a plus sign (+) inside this box →

PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted with Initial Filing Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	CIT 2606 CIP
First Named Inventor	Jeffrey Hubbell
COMPLETE IF KNOWN	
Application Number	10 / 024,918
Filing Date	December 18, 2001
Group Art Unit	1651
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ENZYME-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE ENGINEERING

(Title of the Invention)

the specification of which

is attached hereto

OR

was filed on (MM/DD/YYYY) as United States Application Number or PCT International

(if applicable).

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	NO
PCT/US98/06617		04/02/1998	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	
60/042,143	04/03/1997	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

CIT 2606 CIP

077043/00001

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: Customer Number or Bar Code Label OR Correspondence address below

Name Patreo L. Pabst; Holland & Knight, LLP

Address Suite 200, One Atlantic Center

Address 1201 West Peachtree Street

City Atlanta	State GA	ZIP 30309-3400
--------------	----------	----------------

Country USA	Telephone (404) 817-8473	Fax (404) 817-8588
-------------	--------------------------	--------------------

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :	<input type="checkbox"/> A petition has been filed for this unsigned inventor
----------------------------------	---

Given Name (first and middle [if any]) Jeffrey	Family Name Hubbell or Surname
--	--------------------------------

Inventor's Signature 	Date 27.01.02
--	---------------

Residence: City Zumikon	State	Country Switzerland	Citizenship US
-------------------------	-------	---------------------	----------------

Mailing Address Unterdorfstrasse 22

Mailing Address

City Zumikon	State	ZIP CH-8126	Country Switzerland
--------------	-------	-------------	---------------------

NAME OF SECOND INVENTOR:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
--------------------------	---

Given Name (first and middle [if any]) Jason	Family Name Schense or Surname
--	--------------------------------

Inventor's Signature 	Date 28.1.02
--	--------------

Residence: City Zurich	State	Country Switzerland	Citizenship US
------------------------	-------	---------------------	----------------

Mailing Address ArosaStrasse 12

Mailing Address

City Zurich	State	ZIP CH-8008	Country Switzerland
-------------	-------	-------------	---------------------

✓ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Enzyme-Mediated Modification of Fibrin for Tissue Engineering

December 18, 2001

Please type a plus sign (+) inside this box →

PTO/SB/02A (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) Andreas		Family Name or Surname Zisch	
Inventor's Signature <i>Andreas Zisch</i>			Date Feb 26, 02
Residence: City Zurich	State	Country Switzerland	Citizenship AT
Mailing Address Apfelbaumstrasse 37			
Mailing Address			
City Zurich	State	ZIP 8050	Country Switzerland
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) Heike		Family Name or Surname Hall	
Inventor's Signature <i>Heike Hall</i>			Date 18.2.2002
Residence: City Zurich	State	Country Switzerland	Citizenship DE
Mailing Address Froebelstrasse 33			
Mailing Address			
City Zurich	State	ZIP 8032	Country Switzerland
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) 		Family Name or Surname 	
Inventor's Signature 			Date
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

CIT 2606 CIP

077043/00001

Please type a plus sign (+) inside this box →

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it display a valid OMB control number.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

	Application Number	Continuation-in-Part of 09/057,052
	Filing Date	December 18, 2001
	First Named Inventor	Jeffrey Hubbell
	Title	ENZYME-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE ENGINEERING
	Group Art Unit	1651
	Examiner Name	
	Attorney Docket Number	CIT 2606 CIP

I hereby appoint:

Practitioners at Customer Number

Place Customer
Number Bar Code
Label here

OR

Practitioner(s) named below:

Name	Registration Number
Patrea L. Pabst	31,284
Zhaoyang Li	46,872
Rivka D. Monheit	48,731
Yang Xu	45,243

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

The above-mentioned Customer Number.

OR

Practitioners at Customer Number

Place Customer
Number Bar Code
Label here

OR

<input checked="" type="checkbox"/> Firm or Individual Name	Patrea L. Pabst; Holland & Knight LLP			
Address	Suite 2000, One Atlantic Center			
Address	1201 West Peachtree Street, N.E.			
City	Atlanta	State	GA	Zip 30309-3400
Country	USA			
Telephone	(404) 817-8473	Fax	(404) 817-8588	

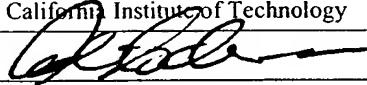
I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	California Institute of Technology
Signature	
Date	February 28, 2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

*Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall

Application No./Patent No.: 10/024,918 Filed/Issue Date: December 18, 2001

Entitled: ENZYME-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE ENGINEERING

California Institute of Technology, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or
2. an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is %

in the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

February 28, 2002

Date

~~Entered or printed name~~

Adam Cochran Signature
The Intellectual Property Counsel

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



MAY 22, 2002

PTAS

Chief Information Officer
Washington, DC 20231
www.uspto.gov

HOLLAND & KNIGHT LLP
PATREA L. PABST
SUITE 2000, ONE ATLANTIC CENTER
1201 WEST PEACHTREE STREET, N.E.
ATLANTA, GEORGIA 30309-3400



102037685A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/19/2002

REEL/FRAME: 012722/0851

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HUBBELL, JEFFREY

DOC DATE: 01/27/2002

ASSIGNOR:

SCHENSE, JASON

DOC DATE: 01/28/2002

ASSIGNOR:

ZISCH, ANDREAS

DOC DATE: 02/26/2002

ASSIGNOR:

HALL, HEIKE

DOC DATE: 02/18/2002

ASSIGNEE:

CALIFORNIA INSTITUTE TECHNOLOGY OF
1200 EAST CALIFORNIA BOULEVARD
PASADENA, CALIFORNIA 91125

SERIAL NUMBER: 10024918

FILING DATE: 12/18/2001

PATENT NUMBER:

ISSUE DATE:

RECEIVED

MAY 28 2002

Docketed for CIT2606 CIP

PATENT DEPT

By: JCS

Date: 5-31-02

DOROTHY RILEY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-01-2002



102037685



23579

PATENT & TRADEMARK OFFICE

OFFICE OF PTO RECORDS
U.S. Department of Commerce
Patent and Trademark Office

PATENT

2002 MAR 19 AM 10:37

FINANCE SECTION

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

 New

3-19-02

 Resubmission (Non-Recordation)
Document ID#
 Correction of PTO Error
Reel # Frame #
 Corrective Document
Reel # Frame #

Conveyance Type

 Assignment

 Security Agreement

 License

 Change of Name

 Merger

 Other
 U.S. Government

(For Use ONLY by U.S. Government Agencies)

 Departmental File

 Secret File

Conveying Party(ies)

 Mark if additional names of conveying parties attached

Execution Date

Month Day Year

01272002

Name (line 1) Hubbell, JeffreyName (line 2)

Second Party

Name (line 1) Schense, Jason

Execution Date

Month Day Year

01282002

Name (line 2)

Receiving Party

 Mark if additional names of receiving parties attached

 If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment
of a domestic
representative is attached.
(Designation must be a
separate document from
Assignment.)
Name (line 1) California Institute of TechnologyName (line 2) Address (line 1) 1200 East California BoulevardAddress (line 2) Address (line 3) Pasadena

City

California

State/Country

91125

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Address (line 1) Address (line 2) Address (line 3) Address (line 4)

FOR OFFICE USE ONLY

3/29/2002 GTOM11 00000077 10024918

1 FC:581

40.00 00

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: CIT 2606 CIP 077043/00009
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Correspondent Name and Address

Area Code and Telephone Number (404) 817-8473

Name Patrea L. Pabst

Address (line 1) Holland & Knight LLP

Address (line 2) Suite 2000, One Atlantic Center

Address (line 3) 1201 West Peachtree Street, N.E.

Address (line 4) Atlanta, Georgia 30309-3400

Page Enter the total number of pages of the attached conveyance document # 5

Application Number(s) or Patent Number(s) Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

10024918

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number

PCT

PCT

PCT

only if a U.S. Application Number PCT PCT PCT
has not been assigned.

Number of Properties

Enter the total number of properties involved. # 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:

Deposit Account

Enclosed

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

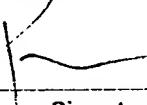
Deposit Account Number: # 50-1868

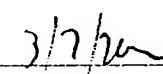
Authorization to charge additional fees: Yes No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Patrea L. Pabst


Signature


Date

Name of Person Signing
Reg. No.: 31,284

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Enter additional Conveying Parties

Mark if additional names of conveying parties attached

Execution Date
Month Day Year

02262002

Name (line 1) Zisch, Andreas

Name (line 2)

Name (line 1) Hall, Heike

Name (line 2)

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

02182002

Execution Date
Month Day Year

Receiving Party(ies)

Enter additional Receiving Party(ies)

Mark if additional names of receiving parties attached

Name (line 1)

If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment
of a domestic representative
is attached. (Designation
must be a separate
document from
Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment
of a domestic representative
is attached. (Designation
must be a separate document from
Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

10024918

Patent Number(s)

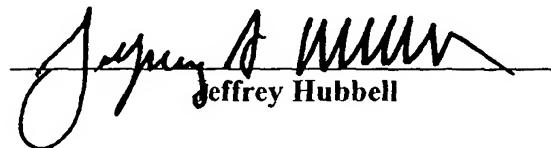
ASSIGNMENT

We, Jeffrey Hubbell of Unterdorfstrasse 22, Zumikon CH-8126, SWITZERLAND, Jason Schense of ArosaStrasse 12, Zürich CH-8008, SWITZERLAND, Andreas Zisch of Apfelbaumstrasse 37, Zürich 8050, SWITZERLAND, and Heike Hall of Froebelstrasse 33, Zürich 8032, SWITZERLAND, in consideration of ten dollars and other valuable consideration paid to us by California Institute of Technology, a corporation of the State of California, having its principal place of business at 1200 East California Boulevard, Pasadena, California 91125, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said California Institute of Technology, its successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Enzyme-Mediated Modification of Fibrin for Tissue Engineering*" described in U.S. Serial No. 10/024,918 filed in the United States Patent and Trademark Office on December 18, 2001, by Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall, which is a continuation-in-part of U.S. Serial No. 09/057,052 filed April 8, 1998, now U.S. Patent No. 6,331,422, which is a continuation of International Application No. PCT/US98/06617 filed April 2, 1998, which claims priority to U.S. Provisional Application Serial No. 60/042,143 filed in the United States Patent and Trademark Office on April 3, 1997, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"
By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall
Filed: December 18, 2001
ASSIGNMENT

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 22nd day of January, 2002.



Jeffrey Hubbell

Witnesses:

1. Signed: Babette Gildenpfennig
Printed Name: BABETTE GÜLDENPFENNIG
Address: GUGGERSTR. 7
CH - 8702 ZOLLIKON

2. Signed: Marion Huber
Printed Name: MARION HUBER
Address: THOERIGENSTRASSE 36
CH - 3360 HERZOGENBUCHSEE

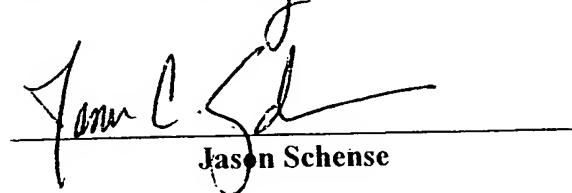
Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"

By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall

Filed: December 18, 2001

ASSIGNMENT

WITNESS my hand and seal this 28 day of January, 2002.



Jason Schense
Jason Schense

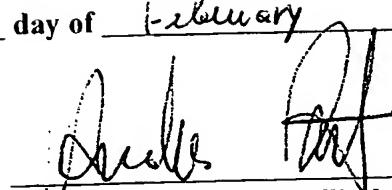
Witnesses:

1. Signed: Babette Gildemeijer
Printed Name: BABETTE GÜLDENPFENNIG
Address: GUGGERSTR. 7
CH-8702 ZOLLIKON

2. Signed: Marion Huber
Printed Name: MARION HUBER
Address: THOERIGENSTRASSE 36
CH-3360 HERZOGENBUCHSEE

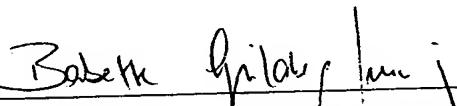
Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"
By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall
Filed: December 18, 2001
ASSIGNMENT

WITNESS my hand and seal this 26 day of February, 2002.


Andreas Zisch

Witnesses:

1. Signed: 
Printed Name: Jennifer Griffiths.
Address: 765 Bellemeade Place
Alpharetta, GA 30004.

2. Signed: 
Printed Name: Bobette Gildemeister
Address: Guggenheim
CH-8702 Zollikon.

Title: "Enzyme-Mediated Modification of Fibrin for Tissue Engineering"

By: Jeffrey Hubbell, Jason Schense, Andreas Zisch, and Heike Hall

Filed: December 18, 2001

ASSIGNMENT

WITNESS my hand and seal this 10th day of February, 2002.

Heike Hall

Heike Hall

Witnesses:

1. Signed: Babette Gündenpfeiff

Printed Name: BABETTE GÜLDENPFEIFF

Address: GUGGERSTR. 7
CH- 8102 ZOLLIKON

2. Signed: Marion Huber

Printed Name: MARION HUBER

Address: THOERIGEN STRASSE 36
3360 HERZOGENBUCHSEE

ATL1 #500271 v1